

WHAT IS CLAIMED IS:

1 1. An antenna device mounted on a vehicle body, comprising:
2 an antenna element;
3 an antenna base, to which a distal end of the antenna element is
4 attached, the antenna base comprising:
5 a conductive screw projection, electrically connected with the
6 antenna element and inserted into a hole formed in the vehicle body;
7 a first insulative member, mounted on an outer face of the vehicle
8 body to electrically insulate the screw projection from the vehicle body;
9 a conductive washer, disposed inside the vehicle body such that the
10 screw projection is inserted therethrough;
11 a conductive nut, disposed inside the vehicle body to be screwed to
12 the screw projection to form a conductive path from the antenna element and
13 an electric equipment disposed inside the vehicle; and
14 a second insulative member, disposed inside the vehicle body to
15 electrically insulate the screw projection from the washer, and to electrically
16 insulate the nut from the washer.

1 2. The antenna device as set forth in claim 1, wherein:
2 the screw projection is inserted through the washer such that relative
3 rotation therebetween is restricted;
4 the first insulative member comprises a projection brought into
5 contact with the outer face of the vehicle body; and
6 the washer comprises a pawl arranged so as to oppose the projection

7 through the vehicle body.

1 3. The antenna device as set forth in claim 1, further comprising a
2 conductive shield case having a wall interposed between the washer and the
3 second insulative member and formed with a hole into which the screw
4 projection is inserted, wherein:

5 the washer and the shield case are electrically connected;

6 the nut is screwed to the screw projection at the inside of the shield
7 case; and

8 the screw projection and the shield case are electrically insulated by
9 the second insulative member.

1 4. The antenna device as set forth in claim 2, wherein the antenna base
2 comprises a conductive member which is continuous with the screw projection
3 and integrally molded with the first insulative member such that the projection
4 is arranged between the conductive member and the vehicle body.

1 5. The antenna device as set forth in claim 3, wherein:

2 the second insulative member is formed with a hole into which the
3 screw projection is inserted; and

4 the screw projection and the hole of the second insulative member
5 are so formed as to restrict relative rotation therebetween.

1 6. The antenna device as set forth in claim 3, further comprising a
2 conductive plate held by the second insulative member and the nut.

1 7. The antenna device as set forth in claim 6, wherein:
2 the washer and the second insulative member are fixed the shield
3 case, and the conductive plate is fixed to the second insulative member; and
4 the nut comprises a pair of flanges separated from each other in an
5 axial direction of the screw projection, between which the conductive plate is
6 interposed.

1 8. The antenna device as set forth in claim 2, wherein the first insulative
2 member comprises a rubber pad mounted on the outer face of the vehicle
3 body and formed with a hole, through which the projection extends.

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